

## Solid-state contactor - ELR 1-230AC/600AC-30 - 2297167

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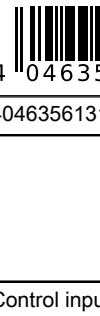
Single-phase solid-state contactor, input voltage: 230 V AC, output current: 30 A, zero voltage switch

### Why buy this product

- High switching frequency
- Wear and bounce-free
- 24 V DC and 230 V AC input voltage versions



### Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 131995
GTIN	4046356131995

### Technical data

#### Input data

Input name	Control input
Rated actuating voltage $U_c$	230 V AC
Triggering voltage range	24 V AC ... 275 V AC
Rated actuating current $I_c$	approx. 17 mA
Switching threshold	$\leq 6$ V AC ("0" signal) $\geq 22$ V AC ("1" signal)
Transmission frequency	6 Hz
Operating voltage display	Green LED

#### Output data load output

Operating voltage range	42 V AC ... 660 V AC
Load current range	150 mA ... 30 A (see to derating)
Rated operating current at AC-51	30 A
Rated operating current at AC-53a	15 A

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## Technical data

### Output data load output

Leakage current	< 3 mA (In off state)
Residual voltage	< 1.6 V
Surge current	400 A (t = 10 ms)
Protective circuit	RCV circuit

### Connection data, control circuit

Connection name	Control circuits
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M4
Conductor cross section solid	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section flexible	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section AWG	20 ... 14

### Connection data load circuit

Connection name	Load circuit
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M4
Conductor cross section solid	0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross section flexible	0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross section AWG	20 ... 12

## General

Test voltage input/output	4 kV <sub>rms</sub>
Mounting position	Vertical (horizontal DIN rail)
Assembly instructions	Can be aligned with ≥ 22.5 mm spacing

## Dimensions

Width	22.5 mm
Height	103 mm
Depth	103 mm

## Ambient conditions

Ambient temperature (operation)	-30 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C

## Standards and Regulations

Connection in acc. with standard	CUL
Designation	Standards/regulations
Standards/regulations	EN 61000-4-2
	EN 61000-4-3
	EN 61000-4-4
	EN 61000-4-5

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## Technical data

### Standards and Regulations

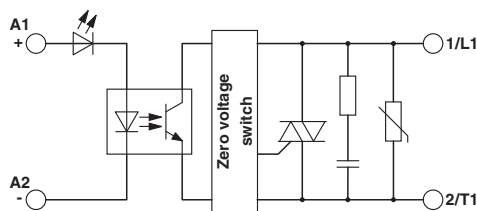
	EN 61000-4-6
	EN 55011

### Environmental Product Compliance

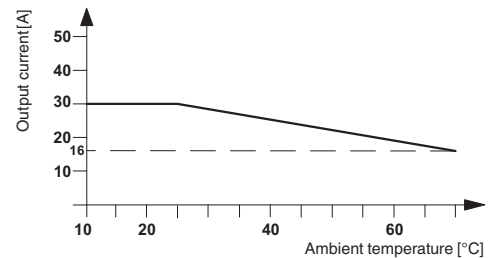
REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

Block diagram



Diagram



## Approvals

### Approvals

#### Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

#### Ex Approvals


### Approval details


UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 195083
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cUL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 195083
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### Approvals

EAC		RU C- DE.A*30.B.01082
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cULus Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>
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